

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: May 7, 2002, 12:01:59 ; Search time 32.09 Seconds  
(without alignments)  
337.077 Million cell updates/sec

Title: US-09-772-103-10  
Perfect score: 742  
Sequence: 1 MAVLVFLCLVAPPCVLSQ.....MKRGYAMDYWGQTLTVSS 142

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 76174552 residues  
al number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR68:\*  
1: pir1:\*  
2: pir2:\*  
3: pir3:\*  
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	588.5	79.3	141	2 S52446	Ig heavy chain V r
2	561.5	75.7	139	2 A32456	Ig heavy chain pre
3	558	75.2	140	2 S55028	Ig heavy chain V r
4	528.5	71.2	135	2 S31913	Ig gamma-2A chain
5	525	70.8	117	2 S10111	Ig heavy chain V r
6	510	68.7	140	2 S14238	Ig gamma-1 chain p
7	506	68.2	144	1 G2MS14	Ig heavy chain pre
8	504.5	66.2	144	2 S11244	Ig gamma-2a chain
9	491	66.2	140	2 S37782	Ig variable region
10	483.5	65.2	137	2 S31676	Ig heavy chain V r
11	481.5	64.9	120	2 PL0087	Ig heavy chain V r
12	481.5	64.9	139	2 S31586	Ig heavy chain V r
13	478	64.4	116	2 S33952	Ig heavy chain V r
14	478	64.4	155	2 S33952	Ig mu chain precu
15	476	64.2	147	2 S15111	Ig heavy chain - h
16	475	64.0	116	2 S13519	Ig heavy chain V r
17	475	63.2	155	2 S31512	Ig heavy chain pre
18	469	63.2	112	2 S11100	Ig heavy chain - h
19	467.5	63.0	145	2 S78055	Ig heavy chain V r
20	467	62.9	130	2 S31690	Ig heavy chain pre
21	466	62.8	114	2 S11106	Ig heavy chain V r
22	464	62.5	115	1 HVMS14	Ig heavy chain V r
23	464	62.5	116	2 S11102	Ig heavy chain pre
24	464	62.5	127	2 B31807	Ig heavy chain V r
25	459	61.9	146	2 S09711	Ig heavy chain V r
26	458	61.7	118	2 PQ0266	Ig heavy chain V r
27	456.5	61.5	117	2 S38563	Ig heavy chain V r
28	456	61.5	146	2 S09710	Ig heavy chain V r

## ALIGNMENTS

## RESULT 1

S52446

Ig heavy chain V region precursor - mouse  
C:Species: Mus musculus (house mouse)  
C>Date: 08-May-1995 #sequence\_revision 03-Aug-1995 #text\_change 23-Jul-1999

R:Berdoz, J.; Kraehenbuhl, J.P.

submitted to the EMBL Data Library, November 1994

A:Description: Specific amplification by the polymerase chain reaction of rearranged

A:Reference number: S52445

A:Accession: S52446

A&gt;Status: preliminary

A:Molecule type: DNA

A:Residues: 1-141 &lt;BER&gt;

A:Cross-references: EMBL:X82692; NID:9673441; PIDN:CAA58013.1; PID:9673442

C:Genetics:

A:Introns: 16/1

C:Superfamily: immunoglobulin V region; immunoglobulin homology

C:Keywords: heterotetramer; immunoglobulin

F:34-116/Domain: immunoglobulin homology &lt;IMM&gt;

## Query Match

Best Local Similarity 79.3%; Score 588.5; DB 2; Length 141;

Matches 115; Conservative 12; Mismatches 14; Indels 1; Gaps 1;

QY 1 MAVLVFLCLVAPPCVLSQVQLQESGPGVKPSQTLSTCTVSGFSLTSYGVYWRQPP 60

Db 1 MAVLVFLCLVAPPCVLSQVQLQESGPGVKPSQTLSTCTVSGFSLTSYGVYWRQPP 60

QY 61 GKGLEWLVGVIWAGGTNNYNSALMSRLTTSKDTSKNOVSKLSSVTAADTAVYVCARGPPH 120

Db 61 GKGLEWLVGVIWAGGTNNYNSALMSRLTTSKDTSKNOVSKLSSVTAADTAVYVCARGPPH 120

QY 121 AMMKRGYAMDYWGQTLTVSS 142

Db 120 STMDTPYAMDYWGQTLTVSS 141

## RESULT 2

A32456

Ig heavy chain precursor V region - mouse  
C:Species: Mus musculus (house mouse)  
C>Date: 26-Oct-1989 #sequence\_revision 31-Dec-1993 #text\_change 23-Jul-1999

R:Dombrink-Kurtzman, M.A.; Johnson, L.S.; Riordan, G.S.; Bedzyk, W.D.; Voss Jr., E.W.

J. Biol. Chem. 264, 4513-4522, 1989

A:Title: Variable region primary structures of a high affinity anti-fluorescein immu

A:Reference number: A32456; MOID:89174706

A:Accession: A32456

A&gt;Status: preliminary

A:Molecule type: mRNA

us-09-772-103-10.rpr

Mon Jul 1 16:28:03 2002

A;Residues: 1-135 <BES>  
 A;Cross-references: EMBL:X70822; NID:g57921; PIDN:CAA50153.1; PID:g57922  
 A;Experimental source: strain BALB/c  
 C;Superfamily: immunoglobulin V region; immunoglobulin  
 C;Keywords: heterotetramer; immunoglobulin  
 F;1-11/Domain: signal sequence #status predicted <SIG>  
 F;12-135/Product: Ig gamma-2A chain (fragment) #status predicted <MAT>  
 F;34-116/Domain: immunoglobulin homology <IMM>

Query Match 71.2%; Score 528.5; DB 2; Length 135;  
 Best Local Similarity 70.4%; Pred. No. 1.2e-39;  
 Matches 100; Conservative 19; Mismatches 16; Indels 7; Gaps 1;  
 QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 DB 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 QY 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120  
 DB 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120  
 QY 121 AMMKRGYAMDYWGQGLTVTVSS 142  
 DB 117 --ELVYFYDYWGQGLTVTVSS 135

## RESULT 5

S10111  
 Ig heavy chain V region (clone 26) precursor - mouse (fragment)  
 C;Species: Mus musculus (house mouse)  
 C;Date: 21-Nov-1993 #sequence\_revision 10-Nov-1995 #text\_change 23-Jul-1999  
 R;Kaartinen, M.; Solin, M.L.; Maekelae, O.  
 EMBL J. 8, 1743-1748, 1989  
 A;Title: 'Allelic' forms of immunoglobulin V genes in different strains of mice.  
 A;Reference number: S10111; MUID:89356648  
 A;Accession: S10111  
 A;Molecule type: mRNA  
 A;Residues: 1-117 <KAA>  
 A;Cross-references: EMBL:X15471; NID:g50005; PIDN:CAA33499.1; PID:g50006  
 C;Superfamily: immunoglobulin V region; immunoglobulin homology  
 C;Keywords: heterotetramer; immunoglobulin  
 F;34-116/Domain: immunoglobulin homology <IMM>

Query Match 70.8%; Score 525; DB 2; Length 117;  
 Best Local Similarity 85.3%; Pred. No. 2.2e-39;  
 Matches 99; Conservative 11; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 DB 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 QY 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 116  
 DB 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 116

## RESULT 6

S14238  
 Ig gamma-1 chain precursor (15C5) - mouse (fragment)  
 C;Species: Mus musculus (house mouse)  
 C;Date: 25-Feb-1994 #sequence\_revision 10-Nov-1995 #text\_change 23-Jul-1999  
 C;Accession: S14238  
 R;Vandamme, A.M.; Buleus, F.; Bernar, H.; Nelles, L.; Lijnen, R.H.; Collen, D.  
 Eur. J. Biochem. 192, 767-775, 1990  
 A;Title: Construction and characterization of a recombinant murine monoclonal antibody  
 A;Reference number: S14238  
 A;Accession: S14238  
 A;Molecule type: mRNA  
 A;Residues: 1-140 <VNA>  
 A;Cross-references: EMBL:X56392; NID:g51619; PIDN:CAA39803.1; PID:g747853

A;Residues: 1-139 <DOM>  
 A;Cross-references: GB:J04609; NID:g556316; PIDN:AAA50298.1; PID:g556317  
 A;Note: the authors translated the codon CAC for residue 20 as Gln, and CAC for residue  
 C;Superfamily: immunoglobulin V region; immunoglobulin homology  
 C;Keywords: heterotetramer; immunoglobulin  
 F;34-116/Domain: immunoglobulin homology <IMM>

Query Match 75.7%; Score 561.5; DB 2; Length 139;  
 Best Local Similarity 76.4%; Pred. No. 1.6e-42;  
 Matches 110; Conservative 14; Mismatches 13; Indels 7; Gaps 2;  
 QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 DB 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 QY 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120  
 DB 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120  
 QY 121 AMMKRGYAMDYWGQGLTVTVSS 142  
 DB 117 --ELVYFYDYWGQGLTVTVSS 139

## RESULT 3

S55028  
 Ig heavy chain V region - mouse (fragment)  
 C;Species: Mus musculus (house mouse)  
 C;Date: 23-Aug-1995 #sequence\_revision 19-Oct-1995 #text\_change 23-Jul-1999  
 R;Jeffrey, P.D.; Schildbach, J.F.; Chang, C.Y.; Kussie, P.H.; Margolies, M.N.; Sheriff,  
 J. Mol. Biol. 248, 344-360, 1995  
 A;Title: Structure and specificity of the anti-digoxin antibody 40-50.  
 A;Reference number: S55027; MUID:95257394  
 A;Accession: S55028  
 A;Status: Preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-140 <JEF>  
 A;Cross-references: EMBL:L31403; NID:g476717; PIDN:AAA38191.1; PID:g476718  
 C;Superfamily: immunoglobulin V region; immunoglobulin homology  
 C;Keywords: heterotetramer; immunoglobulin  
 F;34-116/Domain: immunoglobulin homology <IMM>

Query Match 75.2%; Score 558; DB 2; Length 140;  
 Best Local Similarity 76.1%; Pred. No. 3.3e-42;  
 Matches 108; Conservative 15; Mismatches 17; Indels 2; Gaps 1;

QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 DB 1 MAVLVFLCLVAFPCVLSQVQLQESGPGVLPKPSQTLSTCTVSGFSLTSYGYYVWRQPP 60  
 QY 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120  
 DB 61 GKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNOVSLKLSSTAAADTAAYYCARGPPH 120

## RESULT 4

S31913  
 Ig gamma-2A chain precursor - mouse (fragment)  
 C;Species: Mus musculus (house mouse)  
 C;Date: 19-Mar-1997 #sequence\_revision 01-Aug-1997 #text\_change 23-Jul-1999  
 C;Accession: S31913  
 R;Bespalov, I.A.; Hiyonov, P.A.; Lukashovich, L.V.; Lunev, V.E.; Tribush, S.S.; Gaponova  
 submitted to the EMBL data Library, January 1993  
 A;Reference number: S31913  
 A;Accession: S31913  
 A;Molecule type: mRNA

C:Superfamily: immunoglobulin V region; immunoglobulin homology  
 C:Keywords: immunoglobulin  
 F:26-106/Domain: immunoglobulin homology <IMM>

Query Match 68.7%; Score 510; DB 2; Length 140;  
 Best Local Similarity 70.1%; Pred. No. 5.4e-38;  
 Matches 94; Conservative 21; Mismatches 13; Indels 6; Gaps 1;  
 QY 9 CLVAFPCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPPGKLEWLG 68  
 DB 1 CLVTFPCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPPGKLEWLG 60  
 QY 69 VIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPPGKLEWLG 60  
 DB 61 VIWGGSTDYNAFTISRLINKNSQVFFKMSLQANDTAIYVCA-----YWGTS 114  
 QY 129 MDYWGQGTSLTVTVSS 142  
 DB 115 MDYWGQGTSLTVTVSS 128

RESULT 7  
 G2MS14  
 Ig heavy chain precursor V region (MOPC 141) - mouse  
 C:Species: Mus musculus (house mouse)  
 C:Date: 31-Oct-1980 #sequence\_revision 31-Oct-1980 #text\_change 16-Jun-2000  
 C:Accession: A02094  
 R:Sakano, H.; Maki, R.; Kurosawa, Y.; Roeder, W.; Tonegawa, S.  
 Nature 286, 676-683, 1980  
 A:Title: Two types of somatic recombination are necessary for the generation of complete  
 A:Reference number: A03229; MUID:81012133  
 A:Accession: A02094  
 A:Molecule type: DNA  
 A:Residues: 1-144 <SAK>  
 A:Cross-references: GB:V00768; GB:J00491; NID:g51615; PIDN:CAA24149.1; PID:g51616  
 A:Note: the sequence shown was determined from a differentiated gene isolated from a myeloma cell line. The authors translated the codon TAT for residue 51 as Thr and TTA for residue 9  
 C:Genetics: 16/1  
 C:Introns: 16/1  
 C:Superfamily: immunoglobulin V region; immunoglobulin homology  
 C:Keywords: heterotetramer; immunoglobulin  
 F:1-19/Domain: signal sequence #status predicted <SIG>  
 F:20-144/Product: Ig heavy chain V region (MOPC 141) #status predicted <NAT>  
 F:34-116/Domain: immunoglobulin homology <IMM>

Query Match 68.2%; Score 506; DB 1; Length 144;  
 Best Local Similarity 67.4%; Pred. No. 1.3e-37;  
 Matches 97; Conservative 15; Mismatches 30; Indels 2; Gaps 1;  
 QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPP 60  
 DB 1 MAVLALLFLATFPSCILSQVQLKESGPGLVAPSQSLTCTVSGFSLTSYGVYVWRQPP 60  
 QY 61 GKLEWLGVIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPP 60  
 DB 61 GKLEWLGVIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPP 60  
 QY 119 PHAMKRGYAMDYWGQGTSLTVTVSS 142  
 DB 121 YGSRDXYFTLDYWGQGTSLTVTVSS 144

RESULT 8  
 S11244  
 Ig gamma-2a chain precursor - mouse (fragment)  
 C:Species: Mus musculus (house mouse)  
 C:Date: 18-Feb-1994 #sequence\_revision 10-Nov-1995 #text\_change 16-Aug-1996  
 C:Accession: S11244  
 R:Wellman, A.A.; Meares, C.F.  
 Nucleic Acids Res. 18, 5281, 1990  
 A:Title: Sequences of the Lym-1 antibody heavy and light chain variable regions.

A:Reference number: S11244; MUID:90384832  
 A:Accession: S11244  
 A:Molecule type: mRNA  
 A:Residues: 1-144 <WEL>  
 A:Cross-references: EMBL:X53483  
 C:Superfamily: immunoglobulin V region; immunoglobulin homology  
 C:Keywords: immunoglobulin  
 F:34-116/Domain: immunoglobulin homology <IMM>

Query Match 68.0%; Score 504.5; DB 2; Length 144;  
 Best Local Similarity 70.4%; Pred. No. 1.7e-37;  
 Matches 100; Conservative 15; Mismatches 22; Indels 5; Gaps 2;  
 QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPP 60  
 DB 1 MAVLGLLLCLVTFPCVLSQVQLKESGPGLVAPSQSLTCTVSGFSLTSYGVYVWRQPP 60  
 QY 61 GKLEWLGVIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPP 120  
 DB 61 GKLEWLVVWSDGTTYNALSKRLSISKNSKSOVFLKMSLQTDOTAIYVCA---SH 117  
 QY 121 AMMKRGYAMDYWGQGTSLTVTVSS 142  
 DB 118 YGSLTAFAS--WGHGTLTVTVSS 137

RESULT 9  
 I37782  
 Ig variable region (VDJ) (clone T23-9) - human (fragment)  
 C:Species: Homo sapiens (man)  
 C:Date: 16-Feb-1996 #sequence\_revision 13-Mar-1997 #text\_change 23-Jul-1999  
 C:Accession: I37782; S25476  
 R:Demailson, C.; Chastagner, P.; Theze, J.; Zouali, M.  
 Proc. Natl. Acad. Sci. U.S.A. 91, 514-518, 1994  
 A:Title: Somatic diversification in the heavy chain variable region genes expressed b  
 A:Reference number: A36876; MUID:94119917  
 A:Accession: I37782  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-140 <RES>  
 A:Cross-references: EMBL:X67906; NID:g33582; PIDN:CAA48104.1; PID:g33583  
 C:Superfamily: immunoglobulin V region; immunoglobulin homology  
 F:46-128/Domain: immunoglobulin homology <IMM>

Query Match 66.2%; Score 491; DB 2; Length 140;  
 Best Local Similarity 71.8%; Pred. No. 2.5e-36;  
 Matches 102; Conservative 11; Mismatches 27; Indels 2; Gaps 1;  
 QY 1 MAVLVFLCLVAFPCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPP 60  
 DB 1 MKHLWFFLLVLAAPRWVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGVYVWRQPP 60  
 QY 61 GKLEWLGVIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPP 120  
 DB 61 GKLEWLGVIWAGTTNNALMSRLTISKDTSKNOVSLKSSVTAADTAATVYVWRQPP 120  
 QY 121 AMMKRGYAMDYWGQGTSLTVTVSS 142  
 DB 121 SWYGRYF--DYWGQGTSLTVTVSS 140

RESULT 10  
 S31676  
 Ig heavy chain V region - human (fragment)  
 C:Species: Homo sapiens (man)  
 C:Date: 22-Nov-1993 #sequence\_revision 10-Nov-1995 #text\_change 23-Jul-1999  
 C:Accession: S31676  
 R:Cuisinier, A.M.; Gauthier, L.; Boublil, L.; Fougereau, M.; Tonnelle, C.  
 Submitted to the EMBL Data Library, June 1992  
 A:Description: Mechanisms that generate human immunoglobulin diversity operate from t  
 A:Reference number: S31585

...diversity operate from t

A:Description: Mechanisms that generate random sequences  
A:Reference number: S31585  
A:Accession: S31586  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-139 <CUI>  
A:Cross-references: EMBL:214196; NID:G30578; PTDN:CAA78565.1; PID:G303979  
S:Superfamily: immunoglobulin V region; immunoglobulin homology  
K:Keywords: heterotrimer; immunoglobulin  
P:34-116/Domain: immunoglobulin homology <IMM>

Query Match	64.9%	Score	481.5	DB 2,	Low
Best Local Similarity	71.1%	Pred. No.	1.7e-35		
Matches 101; Conservative	13;	Mismatches	25;	Indels	3; Gaps
1	MAVLVFLCIVAPPSCVL	SOVOLQSGPGCLV	PSQTLSTCTVSGFS	TSYGVYVWR	QPP 60
1	MKHLWTFLLVAAPRW	LVSOVOLQSGPGCLV	APSETLSLCTVSGS	ISYYWSWIR	QPA 60
1	GKGLEWLGVTWAGGTT	NYNSALMSRLT	ISKDTSKNOVSLK	SSVTAADTAVY	CARGPPH 120
61	GKGLEWLGVTWAGGTT	NYNSALMSRLT	ISKDTSKNOVSLK	SSVTAADTAVY	CARGPPH 120
61	GKLEWIGRIYTSGST	NYNPNSLAKSRV	MTSVSDTSKQFSL	KSSVTAADTAVY	CARG--G 118
121	AMMRGYANDYWGQGL	TVTVSS	142		
	:	:	:	:	:
119	LGIRRG-AFDIWGGGT	MTVTSS	139		
	:	:	:	:	:

RESULT 13

A: Ig mu chain precursor V region (D23) - mouse  
 C: Species: Mus musculus (house mouse)  
 C: Date: 09-Mar-1990 #sequence\_revise 18-Sep-1992 #text\_change 23-May-1997  
 C: Accession: A33932  
 R: Baccala, R.; Vo Quang, T.; Gilbert, M.; TERNYNCK, T.; AVRAMEAS, S.  
 P: Proc. Natl. Acad. Sci. U.S.A. 86, 4624-4628, 1989  
 A: Title: Two murine natural polyelectroactive autoantibodies are encoded by nonmutated ger  
 A: Reference number: A33932; M0ID:89282823  
 A: Accession: A33932  
 A: status: preliminary  
 A: Molecule type: mRNA  
 A: Residues: 1-116 <BAC>  
 A: Cross-references: GB:M27107  
 A: Note: the authors translated the codon CTA for residue 18 as Thr  
 C: Superfamily: immunoglobulin V region; immunoglobulin homology  
 C: Keywords: immunoglobulin  
 F: 34-116/Domain: immunoglobulin homology <IMM>

Query Match 64.4%; Score 478; DB 2; Length 116;  
Best Local Similarity 75.9%; Pred. No. 2.9e-35;  
Matches 88; Conservative 17; Mismatches 11; Indels 0; Gaps 0;

[illegible]

## RESULT 1.4

Ig heavy chain - human  
 S31511  
 C.Species: Homo sapiens (man)  
 C.Date: 13-Jan-1995 #sequence\_revision 13-Jan-1995 #text\_change 23-Jul-1999  
 C.Accession: S31511  
 R.Chastagner, P.; Demaison, C.; Theze, J.; Zouali, M.  
 submitted to the EMBL Data Library, December 1992  
 A.Description: Dominance of clonotypic patterns and variable gene usage of  
 A.Reference number: S31509

A:Accession: S31676  
 B:Status: preliminary  
 C:Title: [View full text](#)  
 D:Molecule type: mRNA  
 E:Residues: 1-137 <CUI>  
 F:Cross-references: EMBL:Z14182; NID:g31031; PIDN:CAA78551.1; PID:g31032  
 G:Superfamily: immunoglobulin V region; immunoglobulin homology  
 H:Keywords: heterotrimer; immunoglobulin  
 I:34-115/Domain: immunoglobulin homology <IMM>

[illegible]

...TUTTAVOLGOCCTUTTVSS 142

121 AMMRGYAMDYWGQGLVNSS 142  
: | | | | | | | | | |  
120 -LM---YGMNDYWGQGTTVTVSS 137

DBb

RESULT 11

PL0087

Ig heavy chain V region (E3) - mouse

C:Species: Mus musculus (house mouse)

C:Date: 07-Jun-1990 #sequence\_revision 07-Jun-1990 #text\_change 23-Jul-1999

C:Accession: PL0087

R:Meek, K.; Haseman, C.; Pollok, B.; Alkan, S.S.; Brait, M.; Slaoui, M.; Urbain, J.; Ca

A:Title: Structural characterization of antiidiotypic antibodies; evidence that Ab2s are

A:Reference number: PL0080; MUID:89094248

A:Accession: PL0087

A:Molecule type: mRNA

A:Residues: 1-120 <MEE>

A:Cross-references: GB:X58593; GB:Y00794; NID:g51571; PIDN:CAA41468.1; PID:g938252

A:Experimental source: strain BALB/c

A>Note: the sequence shown here is from the VH region of an antiidiotypic monoclonal anti

C:Superfamily: immunoglobulin V region; immunoglobulin homology

C:Keywords: heterotetramer; immunoglobulin

P:15-97/Domain: immunoglobulin homology <1M>

every Match	64.9%;	Score 481.5;	DB 2;	Length 120;
st Local Similarity	75.6%;	Pred. NO. 1.5e-35;		
Matches	93;	Conservative 12;	Mismatches 15;	Indels 3;
Gaps				1;

[illegible]

## 340 V

140 VSS 120  
 111  
 118 VSS 120  
 Db  
 RESULT 12  
 S31586  
 Ig heavy chain V region - human (fragment)  
 C-Species: Homo sapiens (man)  
 C.Date: 22-Nov-1993 #sequence\_revision 10-Nov-1995 #text\_change 23-Jul-1999  
 C.Accession: S31586  
 R:Cuisinier, A.M.; Gauthier, L.; Fougereau, M.; Tonnelle, C.  
 submitted to the EMBL Data Library, June 1992

A:Accession: S31511  
A>Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-155 <CHA>  
A:Cross-references: EMBL:X69866; NID:g33094; PIDN:CAA49500.1; PID:g33095  
C:Superfamily: immunoglobulin V region; immunoglobulin homology  
C:Keywords: heterotetramer; immunoglobulin  
F:47-129/Domain: immunoglobulin homology <IMM>

Query Match 64.4%; Score 478; DB 2; Length 155;  
Best Local Similarity 69.7%; Pred. No. 3.9e-35;  
Matches 99; Conservative 10; Mismatches 33; Indels 0; Gaps 0;  
QY 1 MAVLVFLCLVAFPPSCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGYYVVRQP 60  
Db 14 MKHLWFFLLVAAPRWLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGYYVVRQP 60  
QY 61 GKGLEWLGVIWAGGTTNYSALMSRLTISKDTSKNQVSLKSSVTAADTAVYYCARGPPH 120  
Db 74 GKGLEWIGYIYYTGATNPPLKSRVTISVDTSKNQFSLKSSVTAADTAVYYCARGGCI 133  
QY 121 AMMKRGYAMDYWGQGLTVTVSS 142  
Db 134 SSWDYDYGMDVWGQGLTVTVSS 155

RESULT 15  
S13519  
Ig heavy chain V region precursor - human  
C:Species: Homo sapiens (man)  
C:Date: 25-Feb-1994 #sequence\_revision 10-Nov-1995 #text\_change 23-Jul-1999  
C:Accession: S13519  
R:Mortari, F.; Ochs, H.D.; Wedgwood, R.J.P.; Schroeder Jr., H.W.  
Nucleic Acids Res. 19, 673, 1991  
A:Title: Immunoglobulin variable heavy chain cDNA sequence from a patient with x-linked  
A:Reference number: S13519; MUID:91187691  
A:Accession: S13519  
A>Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-147 <MOR>  
A:Cross-references: EMBL:X56158; NID:g37724; PIDN:CAA39626.1; PID:g37725  
C:Superfamily: immunoglobulin V region; immunoglobulin homology  
C:Keywords: heterotetramer; immunoglobulin  
F:41-125/Domain: immunoglobulin homology <IMM>

Query Match 64.2%; Score 476; DB 2; Length 147;  
Best Local Similarity 69.4%; Pred. No. 5.5e-35;  
Matches 100; Conservative 12; Mismatches 26; Indels 6; Gaps 2;  
QY 1 MAVLVFLCLVAFPPSCVLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGYYVVRQ 58  
Db 8 MKHLWFFLLVAAPRWLSQVQLQESGPGLVKPSQTLSTCTVSGFSLTSYGYYVVRQ 58  
QY 59 PPGKLEWLGVIWAGGTTNYSALMSRLTISKDTSKNQVSLKSSVTAADTAVYYCARGP 118  
Db 68 PPGKLEWIGSYIYSGSYINPLKSRVTISVDTSKNQFSLKSSVTAADTAVYYCAR-- 125  
QY 119 PHAMMKRGYAMDYWGQGLTVTVSS 142  
Db 126 --PLWFGELFDYWGQGLTVTVSS 147

Search completed: May 7, 2002, 12:02:00  
Job time: 163 sec

